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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/199,836	11/24/1998	TINKU ACHARYA	42390.P6376	4127	
7.	590 09/13/2002				
JAMES H SALTER BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD 7TH FLOOR			EXAMINER		
			LUU, THANH X		
LOS ANGELE	S, CA 90025	ART UNIT	PAPER NUMBER		
			2070		

DATE MAILED: 09/13/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/199,836	ACHARYA ET AL.				
		Examiner	Art Unit				
Th	e MAILING DATE of this communication	Thanh X Luu	the correspondence address				
Period for Re		appears on the sever on the trian	are correspondence address				
THE MAIL - Extensions after SIX (6 - If the perio - If NO perio - Failure to r - Any reply re	ENED STATUTORY PERIOD FOR RI LING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CF MONTHS from the mailing date of this communication of the provision of the communication of the provision of th	ON. FR 1.136(a). In no event, however, may a reply n. a reply within the statutory minimum of thirty (3 eriod will apply and will expire SIX (6) MONTHS statute, cause the application to become ABANI	be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
1)⊠ Re	sponsive to communication(s) filed on	<u>13 June 2002</u> .					
2a)⊠ Th	is action is FINAL . 2b)□	This action is non-final.					
	nce this application is in condition for all sed in accordance with the practice un						
•	m(s) <u>1-16</u> is/are pending in the applica	ation					
• • • •	,						
	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>2-8 and 10-16</u> is/are allowed.						
· <u> </u>	Claim(s) <u>2-8 and 10-10</u> is/are allowed. Claim(s) <u>1 and 9</u> is/are rejected.						
•							
·	m(s) are subject to restriction a	nd/or election requirement.					
Application I	Papers	·					
9) □ The	specification is objected to by the Exar	miner.					
10) <u></u> The	drawing(s) filed on is/are: a)□ a	accepted or b) objected to by the	Examiner.				
•	plicant may not request that any objection						
-	proposed drawing correction filed on _		pproved by the Examiner.				
	pproved, corrected drawings are required	• •					
<i>,</i> —	path or declaration is objected to by the	e Examiner.					
•	r 35 U.S.C. §§ 119 and 120		424 \ 42				
<i>,</i> —	nowledgment is made of a claim for fo	reign priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
·—	i b) ☐ Some * c) ☐ None of:	and have been as a set and					
1	, •,,		ligation No				
2.	, ,						
	Copies of the certified copies of the application from the International he attached detailed Office action for a	al Bureau (PCT Rule 17.2(a)).					
14)∐ Ackn	owledgment is made of a claim for don	nestic priority under 35 U.S.C. § 1	119(e) (to a provisional application).				
, —	The translation of the foreign language owledgment is made of a claim for dor	• • • • • • • • • • • • • • • • • • • •					
Attachment(s)							
2) Notice of D	references Cited (PTO-892) raftsperson's Patent Drawing Review (PTO-948 Disclosure Statement(s) (PTO-1449) Paper No	3) 5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				

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DETAILED ACTION

This Office Action is in response to amendments and remarks filed June 13,
 Claims 1-16 are currently pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Inoue et al. (U.S. Patent 5,926,238).

Regarding claim 1, Inoue et al. disclose (see Figure 8B and table below) a color filter array comprising a tiling pattern of pass filters, wherein the tiling pattern has a unit array, the unit array having green, red, blue and infrared pass filters in relative numerical proportions 4:1:1:2, respectively.

R	G	В	R	G	В
В	IR	G	IR	R	IR
G	В	R	G	В	R
R	IR	В	IR	G	IR

Fig. 8B of Inoue et al. with unit array highlighted

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Claim Rej cti ns - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al.

Regarding claim 9, Inoue et al. disclose (see Figure 8B) a color filter array comprising a tiling pattern of pass filters, wherein the tiling pattern has a unit array, the unit array having green, red, blue and infrared pass filters in relative proportions 4:1:1:2, respectively. Inoue et al. do not disclose the colors of yellow, magenta and cyan. However, RGB and CYMK color palettes are notoriously well known and associated. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the colors of yellow, magenta and cyan in the apparatus of Inoue et al. since the colors are equivalent and allows for the expansion of the color palette of the device for increased flexibility in operation of the device.

Allowable Subject Matter

6. Claims 2-8 and 10-16 are allowed over the prior art of record.

Response to Arguments

7. Applicant's arguments filed June 13, 2002 have been fully considered but they are not persuasive.

Regarding claims 1 and 9, nothing in the claims limit the invention to having no other filters "in-between" as asserted. Applicant defines the tiling pattern as repeating the unit array. Simply repeating a unit array does not preclude other filters "in-between" the unit array. Thus, Inoue et al. disclose repeating or tiling the unit array as claimed. Therefore, as set forth above, this rejection is proper.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh X. Luu whose telephone number is (703) 305-0539. The examiner can normally be reached on Monday-Friday from 6:30 AM - 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached on (703) 308-4881. The fax phone number for the organization where the application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

txl September 10, 2002 Que T. Le Primary Examiner